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NO. 360 P. 12

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REMARKS

Claims 1-43 are pending in the application. Claims 1, 3, 6, 8, 11, 13, 16, 18, 24, 26, 29, 34, 36 and 39 have been amended; no new matter has been added. Claims 4-5, 7, 14-15, 17, 22, 27, 28, 37 and 38 have been cancelled. Applicants respectfully request reconsideration of the rejections set forth in the Office Action dated May 16, 2006 in view of the preceding amendments and the following remarks.

The Specification on page 11 has been amended to update filing information for a patent application previously incorporated by reference; no new matter has been added.

In the Claims

The claims have been amended and now recite row processing a subset of rows and rescaling to meet bandwidth constraints. For example, claim 1 now recites: "performing one-dimensional inverse transforms on a subset of the total number of rows in the block of transform coefficients by using zero pattern information; and rescaling data to meet bandwidth constraints". Support for the amendments can be found throughout the Specification, and in particular on page 7 line 9 to page 9 line 2 (e.g., rescaling as shown in Figure 1), and page 12 line 20 to page 13 line 4 (e.g., row processing as shown in Figure 4). No new matter has been added.

Rejection Under 35 U.S.C. § 102/103

Claims 1-20 and 23-33 were rejected under 35 U.S.C. 102(e) as being unpatentable over U.S. Patent No. 6,549,667 to Fukuda et al. ('Fukuda').

Claims 34-43 were rejected under 35 U.S.C. 103(a) as being unpatentable over Fukuda.

Claims 21 and 22 were rejected under 35 U.S.C. 103(a) as being unpatentable over Fukuda in view of U.S. Patent No. 6,763,070 to Lee ('Lee').

The independent claims have been amended and now recite: "performing one-dimensional inverse transforms on a subset of the total number of rows in the block of transform coefficients by using zero pattern information; and rescaling data to meet bandwidth constraints". Such a combination of limitations is not taught or suggested by the prior art of record.

One-dimensional inverse transform processing on a subset of the total number of rows was previously recited in dependent claim 5. The Office Action dated May 16, 1006, used col. 10 lines 18-38 and Figs. 15-16B to reject dependent claim 5. More specifically, on page 4 and regarding previous dependent claim 5, the Office Action asserts that Fukuda teaches "inverse transforming a subset of some rows, namely rows 1-4 for columns 3 and 6" in this section of the reference. Applicants respectfully disagree. The processing in Figs. 15-16B of Fukuda is based on Flags set in Fig. 14, which finds zero patters in columns and processes the columns in Figs. 15-16B according to the flags set in Fig. 14. In this instance, Fukuda is not selectively processing rows as recited in the amended independent claims, but selectively processing the first four DCT coefficients in columns that have been flagged. Since this only occurs for the DCT coefficients in columns 3 and 6 (as mentioned both in the reference and the Office Action), then a row has not been selectively processed as recited. In contrast, this is a step in column processing that is looking at DCT coefficients in two specific columns – and is blind to other DCT coefficients in each row (if every column has not been flagged, then the DCT coefficients in an a row are not viewed, just select DCT coefficients in certain columns), and this portion of Fukuda does not teach or suggest the amended independent claims. More specifically, this selective column processing does not teach "identifying zero patterns in the block of transform coefficients to derive zero pattern information, wherein identifying zero patterns comprises determining the location of zero values or near zero values for multiple rows in the block of transform coefficients" and "performing one-dimensional inverse transforms on a subset of the total number of rows in the block of transform coefficients by using zero pattern information"

Moreover, rescaling has been added to the amended independent claims. The Office Action dated May 16, 1006, used a second reference, Lee, to teach rescaling in previously dependent claim 22. Applicants note that Lee: a) was filed one about month before the current application, issued subsequently, and is thus potentially applicable under 35 U.S.C 102(e); and b) the current patent application are both assigned to a common Assignee (Cisco Technology, Inc.). Per 35 U.S.C 103(c)(1), subject matter developed by another, which qualifies as prior art only under 35 U.S.C 102(e), shall not preclude patentability where the subject matter and the claimed

invention were, at the time the claimed invention was made, subject to an obligation of assignment to the same person. Based on the common obligation of assignment to Cisco Technology, Inc., Applicants respectfully submit that Lee not applicable as prior art per 35 U.S.C 103. The rescaling limitation in the amended independent claims thus also remains not taught or suggest by the art of record.

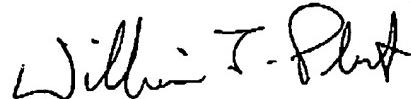
For at least these reasons, the art of record, either alone or in combination, does not teach or suggest the combination of limitations now present in amended independent claims 1, 11, 24 and 34.

Claims 2-10, 12-23, 25-33 and 24-43 each depend either directly from independent claims 1, 11, 24 and 34, respectively, and are therefore respectfully submitted to be patentable over the art of record for at least the reasons set forth above with respect to the independent claim. In addition, the dependent claims recite additional elements which when taken in the context of the claimed invention further patentably distinguish the art of record.

Withdrawal of the rejections under 35 USC 102 and 103 is therefore respectfully requested.

Applicants believe that all pending claims are allowable and respectfully requests Notice of Allowance from the Examiner. Should the Examiner believe that a telephone conference would expedite the prosecution of this application, the undersigned can be reached at the telephone number set out below.

Respectfully submitted,  
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